

SN:09/842,201

VWE-001-1 US

IN THE CLAIMS

Please amend Claims 5, 6, 11, 12, and 15 as follows:

1. (previously presented) A method of determining a first motion vector and a second motion vector for a first macroblock and a second macroblock, respectively, of a present image from a previous image, the method comprising:

selecting a predetermined pattern of pixels in the previous image;

computing a first-macroblock difference measure for each of a first plurality of pixel blocks in the previous image to form a plurality of first-macroblock difference measures for the first macroblock using the predetermined pattern of pixels;

selecting a first origin block from the first plurality of pixel blocks having a lowest first-macroblock difference measure;

computing the first motion vector using the first origin block and the first macroblock;

computing a second-macroblock difference measure for each of a second plurality of pixel blocks in the previous image to form a plurality of second-macroblock difference measures for the second macroblock using the predetermined pattern of pixels;

selecting a second origin block from the second plurality of pixel blocks having a lowest second-macroblock difference measure; and

computing the second motion vector using the second origin block and the second macroblock.

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2. (original) The method of Claim 1, wherein the predetermined pattern of pixels includes less than or equal to half of the pixels in the previous image.

3. (original) The method of Claim 1, wherein the predetermined pattern of pixels includes a fourth of the pixels of the previous image.

4. (original) The method of Claim 1, wherein the y-coordinate modulo four of each pixel in the predetermined pattern of pixels has a y-coordinate is equal to three or zero.

5. (currently amended) The method of Claim 1, wherein computing a first-macroblock difference measure for each of a first plurality of pixel blocks in the previous image to form a plurality of first-macroblock difference measures for the first macroblock using the predetermined pattern of pixels further comprises:

computing an absolute difference between each pixel in both the pixel block and the predetermined pattern with a corresponding pixel in the first macroblock to create a plurality of absolute differences; and

summing the plurality of absolute differences to compute the difference measure.

6. (currently amended) The method of Claim 1, wherein computing a first-macroblock difference measure for each of a first plurality of pixel blocks in the previous image to form a plurality of first-macroblock difference measures for the first